

BROOKTRAILS TOWNSHIP

COMMUNITY SERVICES DISTRICT
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DATE: July 5, 2014
TO: Christopher J. Neary, General Counsel
FROM: Michael L. Phelan, Transition Facilitator
SUBJECT: GHD Water Balance Calculation Irrigation Flow Error

The simple questions for the October 29, 2013 GHD report were: "Do the numbers indicate that flow entering the treatment plant is neither being discharged to the creek nor used for irrigation? If so is the volume not accounted for significant?" A prior review of the data available indicated that the answer to both questions was "yes."

However, the GHD report concludes: "In our opinion based on our review of the data and operations the City of Willits WWTP is operating within the requirements of Order No. R1-2010-0017 and is not in violation of the requirements of the Waste Discharge and Master Reclamation Permit." A skeptic might check to see if any of GHD's numbers look anomalous.

The June 2013 irrigation flow is anomalous as it appears to be reported higher than expected. By doing a quick check of the meter reading charts (attached) for June 2013 through October 2013, it is very clear that the method of calculating the daily irrigation flow from meter readings was different in June compared to the other months by a factor of 10. If true that means that 73 million gallons were reported as used for irrigation that were not so used, are not accounted for, and are missing. If the June method is correct then the flow used for irrigation for the five months was remarkably high.

Below are the calculations:

THE JUNE 2013 IRRIGATION OUTFLOW NUMBER PROBLEM

2013 Math Consistency Check Using Meter Readings for 10th of Each Month:

Date	End		Begin		Use		Chart		Factor	
6/10/2013	498625	-	498226	=	399	÷	0.399	=	0.001	???
7/10/2013	560967	-	555755	=	5212	÷	0.5212	=	0.0001	
8/10/2013	692800	-	687346	=	5454	÷	0.5454	=	0.0001	
9/10/2013	875569	-	868577	=	6992	÷	0.6992	=	0.0001	
10/10/2013	913595	-	913556	=	39	÷	0.0039	=	0.0001	

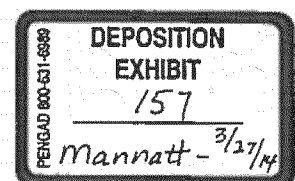
Assuming the error is in June:

Month	End		Begin		Use		Factor		Used	Report	Error
Jun-13	553826	-	472522	=	81304	X	0.0001	=	8.130	81.30	(73.17)
Jul-13	660937	-	553826	=	107111	X	0.0001	=	10.710	10.71	0.00

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Request #7 & 8

Irrigation Records 2013



Willits Water Quality Control Plant - Daily Meter Readings
Month and Year **May-13**

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS Totalizer	RAS Flow, MGD	WAS Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Discharge Irrigation	Flow, MGD
1	pf	5100599	0.767	310021	0.360	6146	24	317004	0.790	530411	0.000
2	sm	5101366	0.715	310381	0.267	6170	0	317794	1.114	530411	0.000
3	pf	5102081	0.742	310648	0.000	6170	0	318908	0.783	530411	0.000
4	pf	5102823	0.739	310648	0.000	6170	0	319691	0.761	530411	0.000
5	pf	5103562	0.777	310648	0.000	6170	0	320452	0.780	530411	0.000
6	nc	5104339	0.792	310648	0.000	6170	0	321232	0.822	530411	0.000
7	jw	5105131	0.691	310648	0.000	6170	0	322054	0.720	530411	0.000
8	nc	5105822	0.726	310648	0.000	6170	0	322774	0.770	530411	0.000
9	nc	5106548	0.761	310648	0.000	6170	0	323544	0.739	530411	0.000
10	nc	5107309	0.654	310648	0.000	6170	0	324283	0.670	530411	0.000
11	jw	5107963	0.748	310648	0.000	6170	0	324953	0.730	530411	0.000
12	jw	5108711	0.685	310648	0.000	6170	0	325683	0.694	530411	0.000
13	nc	5109396	0.686	310648	0.000	6170	0	326377	0.772	530411	0.000
14	nc	5110082	0.771	310648	0.000	6170	0	327149	0.618	530411	0.000
15	nc	5110853	0.685	310648	0.000	6170	0	327767	0.693	530411	0.000
16	nc	5111538	0.722	310648	0.000	6170	0	328460	0.737	530411	0.000
17	nc	5112260	0.705	310648	0.000	6170	0	329197	0.545	530411	0.000
18	je	5112965	0.693	310648	0.000	6170	0	329742	0.670	530411	0.000
19	je	5113658	0.750	310648	0.000	6170	0	330412	0.706	530411	0.000
20	nc	5114408	0.737	310648	0.000	6170	0	331118	0.701	530411	0.000
21	nc	5115145	0.720	310648	0.000	6170	0	331819	0.641	530411	0.000
22	nc	5115865	0.677	310648	0.000	6170	0	332460	0.675	530411	0.000
23	nc	5116542	0.688	310648	0.000	6170	0	333135	0.689	530411	0.000
24	nc	5117230	0.738	310648	0.000	6170	0	333824	0.640	530411	0.000
25	pf	5117968	0.676	310648	0.000	6170	0	334464	0.616	530411	0.000
26	pf	5118644	0.662	310648	0.000	6170	0	335080	0.610	530411	0.000
27	pf	5119306	0.850	310648	0.000	6170	0	335690	0.843	530411	0.000
28	nc	5120156	0.779	310648	0.000	6170	0	336533	0.737	530411	0.000
29	nc	5120935	0.802	310648	0.000	6170	0	337270	0.719	530411	0.000
30	nc	5121737	0.755	310648	0.000	6170	0	337989	0.685	530411	0.000
31	sm	5122492	0.691	310648	0.000	6170	0	338674	0.677	530411	0.000
1	jw	5123183	0.000	310648	0.000	6170		339351		530411	0.000
Average			0.73		0.020		24		0.721		0.000
Maximum			0.850		0.360		24.000		1.114		0.000
Minimum			0.755		0.000		0.000		0.790		0.000

Willits Water Quality Control Plant - Daily Meter Readings

Month and Year Jun-13

Day	Init.	Influent		RAS		WAS		Effluent		Discharge	
		Totalizer	Flow, MGD	Totalizer	Flow, MGD	Totalizer	Flow, MGD	Totalizer	Flow, MGD	Irrigation	Flow, MGD
1	jw	5123183	0.721	310648	0.000	6170	0	339351	0.653	472522	0.828
2	jw	5123904	0.817	310648	0.000	6170	0	340004	0.728	473350	5.222
3	jw	5124721	0.741	310648	0.000	6170	0	340732	0.702	478572	4.367
4	nc	5125462	0.672	310648	0.000	6170	0	341434	0.685	482939	5.022
5	nc	5126134	0.687	310648	0.000	6170	0	342119	0.705	487961	3.792
6	nc	5126821	0.760	310648	0.000	6170	2	342824	0.712	491753	0.584
7	nc	5127581	0.642	310648	0.000	6172	6	343536	0.605	492337	0.878
8	je	5128223	0.714	310648	0.000	6178	8	344141	0.668	493215	4.750
9	je	5128937	0.750	310648	0.000	6186	6	344809	0.694	497965	0.261
10	nc	5129687	0.713	310648	0.000	6192	8	345503	0.659	498226	0.399
11	nc	5130400	0.624	310648	0.000	6200	6	346162	0.576	498625	2.338
12	nc	5131024	0.731	310648	0.000	6206	7	346738	0.604	500963	3.388
13	nc	5131755	0.663	310648	0.000	6213	5	347342	0.598	504351	2.692
14	nc	5132418	0.691	310648	0.000	6218	5	347940	0.601	507043	2.160
15	pf	5133109	0.701	310648	0.000	6223	7	348541	0.636	509203	2.258
16	pf	5133810	0.713	310648	0.000	6230	5	349177	0.636	511461	4.964
17	je	5134523	0.644	310648	0.000	6235	6	349813	0.608	516425	2.568
18	nc	5135167	0.641	310648	0.000	6241	9	350421	0.626	518993	4.212
19	nc	5135808	0.649	310648	0.000	6250	8	351047	0.668	523205	6.033
20	je	5136457	0.624	310648	0.000	6258	6	351715	0.593	529238	5.124
21	nc	5137081	0.581	310648	0.000	6264	7	352308	0.634	534362	5.438
22	jw	5137662	0.550	310648	0.000	6271	8	352942	0.601	539800	4.317
23	jw	5138212	0.585	310648	0.000	6279	21	353543	0.610	544117	0.225
24	je	5138797	0.766	310648	0.000	6300	0	354153	0.783	544342	9.481
25	je	5139563	1.146	310648	0.000	6300	21	354936	1.133	553823	0.003
26	nc	5140709	0.866	310648	0.000	6321	13	356069	0.842	553826	0.000
27	nc	5141575	0.756	310648	0.000	6334	3	356911	0.775	553826	0.000
28	nc	5142331	0.756	310648	0.000	6337	1	357686	0.740	553826	0.000
29	je	5143087	0.682	310648	0.000	6338	14	358426	0.680	553826	0.000
30	je	5143769	0.730	310648	0.000	6352	11	359106	0.705	553826	0.000
1		5144499	0.000	310648	0.000	6363	0	359811	0.000	553826	0.000
0			0.000		0.000						0.000
Average			0.69		0.000		193.000		0.660		2.623
Maximum			1.146		0.000		21.000		1.133		9.481
Minimum			0.730		0.000		0.000		0.653		0.000

Willits Water Quality Control Plant - Daily Meter Readings
Month and Year **JUL-13**

Willits Water Q
Month and Year

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS 1 Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Discharge Irrigation Flow, MGD	Creek Height
1	je	5144499	0.706	310648	0.000	159553	0.214	6363	0.027	12461	0.034	359811	0.481	553826	0.0000
2	nc	5145205	0.643	310648	0.000	159767	0.107	6390	0.024	12495	0	360292	0.849	553826	0.0000
3	nc	5145848	0.610	310648	0.000	159874	0.063	6414	0.012	12495	0	361141	0.728	553826	0.0000
4	pf	5146458	0.573	310648	0.000	159937	0.010	6426	0	12495	0	361869	0.575	553826	0.0000
5	nc	5147031	0.639	310648	0.000	159947	0.273	6426	0.002	12495	0	362444	0.714	553826	0.0000
6	pf	5147670	0.609	310648	0.000	160220	0.139	6428	0.009	12495	0	363158	0.621	553826	0.0000
7	pf	5148279	0.692	310648	0.000	160359	0.147	6437	0.01	12495	0	363779	0.661	553826	0.0000
8	nc	5148971	0.648	310648	0.000	160506	0.210	6447	0.007	12495	0	364440	0.592	553826	0.0412
9	jw	5149619	0.616	310648	0.000	160716	0.186	6454	0	12495	0	365032	0.607	554238	0.1517
10	nc	5150235	0.627	310648	0.000	160902	0.223	6454	0.015	12495	0	365639	0.656	555755	0.5212
11	sm	5150862	0.529	310648	0.000	161125	0.203	6469	0.012	12495	0.003	366295	0.613	560967	0.2524
12	je	5151391	0.579	310648	0.000	161328	0.211	6481	0	12498	0.004	366908	0.628	563491	0.1437
13	jw	5151970	0.577	310648	0.000	161539	0.216	6481	0	12502	0.008	367536	0.628	564928	0.2702
14	jw	5152547	0.611	310648	0.000	161755	0.215	6481	0	12510	0.009	368164	0.641	567630	0.3486
15	nc	5153158	0.581	310648	0.000	161970	0.214	6481	0	12519	0.012	368805	0.606	571116	0.2681
16	pf	5153739	0.525	310648	0.000	162184	0.215	6481	0	12531	0.009	369411	0.594	573797	0.3260
17	nc	5154264	0.543	310648	0.000	162399	0.215	6481	0	12540	0.011	370005	0.588	577057	0.3054
18	nc	5154807	0.517	310648	0.000	162614	0.214	6481	0	12551	0.022	370593	0.611	580111	0.5603
19	nc	5155324	0.518	310648	0.000	162828	0.214	6481	0	12573	0	371204	0.621	585714	0.6393
20	je	5155842	0.515	310648	0.000	163042	0.220	6481	0	12573	0.017	371825	1.112	592107	0.4761
21	je	5156357	0.542	310648	0.000	163262	0.213	6481	0	12590	0.012	372937	0.115	596868	0.2969
22	je	5156899	0.529	310648	0.000	163475	0.214	6481	0	12602	0.022	373052	0.619	599837	0.6591
23	sm	5157428	0.520	310648	0.000	163689	0.214	6481	0	12624	0.01	373671	0.620	606428	0.4334
24	sm	5157948	0.513	310648	0.000	163903	0.216	6481	0	12634	0.007	374291	0.650	610762	0.3628
25	pf	5158461	0.527	310648	0.000	164119	0.215	6481	0	12641	0.036	374941	0.588	614390	0.7398
26	sm	5158988	0.501	310648	0.000	164334	0.217	6481	0	12677	0.007	375529	0.625	621788	0.6870
27	pf	5159489	0.509	310648	0.000	164551	0.185	6481	0	12684	0.011	376154	0.588	628658	0.6878
28	pf	5159998	0.536	310648	0.000	164736	0.244	6481	0	12695	0.008	376742	0.592	635536	0.5962
29	nc	5160534	0.509	310648	0.000	164980	0.211	6481	0	12703	0.02	377334	0.579	641498	0.6624
30	nc	5161043	0.509	310648	0.000	165191	0.217	6481	0	12723	0.018	377913	0.572	648122	0.7095
31	nc	5161552	0.568	310648	0.000	165408	0.224	6481	0	12741	0.023	378485	0.604	655217	0.5720
1		5162120	0.000	310648	0.000	165632	0.000	6481	0	12764	0	379089		660937	0.0000
Average			0.57		0.000		0.196		0.118		0.303		0.622		0.346
Maximum			0.706		0.000		0.273		0.027		0.036		1.112		0.740
Minimum			0.509		0.000		0.010		0.000		0.000		0.481		0.710

Willits Water Quality Control Plant - Daily Meter Readings

Month and Year **JUL-13**

		Influent		RAS		RAS 2		WAS 1		WAS 2		Effluent		Discharge	
Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS 1 Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Irrigation	Flow, MGD
1	je	5144499	0.706	310648	0.000	159553	0.214	6363	0.027	12461	0.034	359811	0.481	553826	0.0000
2	nc	5145205	0.643	310648	0.000	159767	0.107	6390	0.024	12495	0	360292	0.849	553826	0.0000
3	nc	5145848	0.610	310648	0.000	159874	0.063	6414	0.012	12495	0	361141	0.728	553826	0.0000
4	pf	5146458	0.573	310648	0.000	159937	0.010	6426	0	12495	0	361869	0.575	553826	0.0000
5	nc	5147031	0.639	310648	0.000	159947	0.273	6426	0.002	12495	0	362444	0.714	553826	0.0000
6	pf	5147670	0.609	310648	0.000	160220	0.139	6428	0.009	12495	0	363158	0.621	553826	0.0000
7	pf	5148279	0.692	310648	0.000	160359	0.147	6437	0.01	12495	0	363779	0.661	553826	0.0000
8	nc	5148971	0.648	310648	0.000	160506	0.210	6447	0.007	12495	0	364440	0.592	553826	0.0412
9	jw	5149619	0.616	310648	0.000	160716	0.186	6454	0	12495	0	365032	0.607	554238	0.1517
10	nc	5150235	0.627	310648	0.000	160902	0.223	6454	0.015	12495	0	365639	0.656	555755	0.5212
11	sm	5150862	0.529	310648	0.000	161125	0.203	6469	0.012	12495	0.003	366295	0.613	560967	0.2524
12	je	5151391	0.579	310648	0.000	161328	0.211	6481	0	12498	0.004	366908	0.628	563491	0.1437
13	jw	5151970	0.577	310648	0.000	161539	0.216	6481	0	12502	0.008	367536	0.628	564928	0.2702
14	jw	5152547	0.611	310648	0.000	161755	0.215	6481	0	12510	0.009	368164	0.641	567630	0.3486
15	nc	5153158	0.581	310648	0.000	161970	0.214	6481	0	12519	0.012	368805	0.606	571116	0.2681
16	pf	5153739	0.525	310648	0.000	162184	0.215	6481	0	12531	0.009	369411	0.594	573797	0.3260
17	nc	5154264	0.543	310648	0.000	162399	0.215	6481	0	12540	0.011	370005	0.588	577057	0.3054
18	nc	5154807	0.517	310648	0.000	162614	0.214	6481	0	12551	0.022	370593	0.611	580111	0.5603
19	nc	5155324	0.518	310648	0.000	162828	0.214	6481	0	12573	0	371204	0.621	585714	0.6393
20	je	5155842	0.515	310648	0.000	163042	0.220	6481	0	12573	0.017	371825	1.112	592107	0.4761
21	je	5156357	0.542	310648	0.000	163262	0.213	6481	0	12590	0.012	372937	0.115	596868	0.2969
22	je	5156899	0.529	310648	0.000	163475	0.214	6481	0	12602	0.022	373052	0.619	599837	0.6591
23	sm	5157428	0.520	310648	0.000	163689	0.214	6481	0	12624	0.01	373671	0.620	606428	0.4334
24	sm	5157948	0.513	310648	0.000	163903	0.216	6481	0	12634	0.007	374291	0.650	610762	0.3628
25	pf	5158461	0.527	310648	0.000	164119	0.215	6481	0	12641	0.036	374941	0.588	614390	0.7398
26	sm	5158988	0.501	310648	0.000	164334	0.217	6481	0	12677	0.007	375529	0.625	621788	0.6870
27	pf	5159489	0.509	310648	0.000	164551	0.185	6481	0	12684	0.011	376154	0.588	628658	0.6878
28	pf	5159998	0.536	310648	0.000	164736	0.244	6481	0	12695	0.008	376742	0.592	635536	0.5962
29	nc	5160534	0.509	310648	0.000	164980	0.211	6481	0	12703	0.02	377334	0.579	641498	0.6624
30	nc	5161043	0.509	310648	0.000	165191	0.217	6481	0	12723	0.018	377913	0.572	648122	0.7095
31	nc	5161552	0.568	310648	0.000	165408	0.224	6481	0	12741	0.023	378485	0.604	655217	0.5720
1		5162120	0.000	310648	0.000	165632	0.000	6481	0	12764	0	379089		660937	0.0000
Average			0.57		0.000		0.196		0.118		0.303		0.622		0.346
Maximum			0.706		0.000		0.273		0.027		0.036		1.112		0.740
Minimum			0.509		0.000		0.010		0.000		0.000		0.481		0.710

Willits Water Quality Control Plant - Daily Meter Readings
Month and Year Aug-13

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Discharge Irrigation	Flow, MGD
1	sm	5162120	0.492	360244	0.420	165632	0.203	6481	0	12764	0.013	379089	0.554	660937	0.3324
2	nc	5162612	0.549	360664	0.218	165835	0.218	6481	0	12777	0.029	379643	0.660	664261	0.3694
3	jw	5163161	0.525	360882	0.219	166053	0.215	6481	0	12806	0.012	380303	0.366	667955	0.3649
4	jw	5163686	0.582	361101	0.212	166268	0.214	6481	0	12818	0.016	380669	0.388	671604	0.0000
5	nc	5164268	0.583	361313	0.169	166482	0.243	6481	0	12834	0	381057	0.613	671604	0.2242
6	je	5164851	0.599	310817	0.221	166725	0.233	6481	0	12834	0.018	381670	0.697	673846	0.4051
7	nc	5165450	0.588	311038	0.215	166958	0.226	6481	0	12852	0.023	382367	0.659	677897	0.0000
8	nc	5166038	0.571	311253	0.210	167184	0.215	6481	0	12875	0	383026	0.668	677897	0.5843
9	je	5166609	0.587	311463	0.219	167399	0.232	6481	0	12875	0	383694	0.684	683740	0.3606
10	je	5167196	0.572	311682	0.212	167631	0.215	6481	0	12875	0	384378	0.694	687346	0.5454
11	je	5167768	0.626	311894	0.219	167846	0.226	6481	0	12875	0	385072	0.653	692800	0.5340
12	nc	5168394	0.533	312113	0.214	168072	0.226	6481	0	12875	0	385725	0.630	698140	0.5279
13	nc	5168927	0.552	312327	0.214	168298	0.228	6481	0	12875	0.021	386355	0.619	703419	0.5353
14	nc	5169479	0.565	312541	0.217	168526	0.217	6481	0	12896	0.043	386974	0.609	708772	0.5353
15	nc	5170044	0.550	312758	0.212	168743	0.247	6481	0	12939	0.04	387583	0.591	714125	0.5342
16	nc	5170594	0.585	312970	0.217	168990	0.258	6481	0	12979	0.01	388174	0.603	719467	0.7249
17	pf	5171179	0.608	313187	0.227	169248	0.275	6481	0	12989	0.013	388777	0.606	726716	0.0809
18	pf	5171787	0.587	313414	0.208	169523	0.267	6481	0	13002	0.019	389383	0.617	727525	0.0200
19	nc	5172374	0.535	313622	0.066	169790	0.244	6481	0	13021	0.025	390000	0.369	727725	1.0652
20	jw	5172909	0.631	313688	0.000	170034	0.232	6481	0	13046	0.027	390369	0.689	738377	1.1618
21	jw	5173540	0.499	313688	0.000	170266	0.204	6481	0	13073	0.012	391058	0.608	749995	0.7841
22	nc	5174039	0.574	313688	0.000	170470	0.219	6481	0	13085	0.012	391666	0.683	757836	0.8502
23	nc	5174613	0.507	313688	0.000	170689	0.209	6481	0	13097	0.011	392349	0.567	766338	0.8825
24	jw	5175120	0.526	313688	0.000	170898	0.216	6481	0	13108	0.016	392916	0.564	775163	0.1008
25	jw	5175646	0.597	313688	0.000	171114	0.221	6481	0	13124	0	393480	0.635	776171	0.0000
26	nc	5176243	0.555	313688	0.000	171335	0.213	6481	0	13124	0.001	394115	0.603	776171	0.7162
27	nc	5176798	0.555	313688	0.000	171548	0.218	6481	0	13125	0.016	394718	0.588	783333	0.7416
28	nc	5177353	0.540	313688	0.000	171766	0.213	6481	0	13141	0.01	395306	0.616	790749	0.5595
29	je	5177893	0.558	313688	0.000	171979	0.214	6481	0	13151	0.032	395922	0.567	796344	0.7007
30	nc	5178451	0.525	313688	0.000	172193	0.221	6481	0	13183	0	396489	0.633	803351	0.6019
31	je	5178976	0.540	313688	0.000	172414	0.213	6481	0	13183	0.016	397122	0.551	809370	0.5751
1	je	5179516		313688		172627		6481		13199		397673		815121	
Average			0.56		0.133		0.226		0.000		0.435		0.599		0.497
Maximum			0.631		0.420		0.275		0.000		0.043		0.697		1.162
Minimum			0.525		0.000		0.203		0.000		0.000		0.554		0.602

Willits Water Quality Control Plant - Daily Meter Readings
Month and Year [Sept. 2013]

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS 1 Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Discharge Irrigation	Flow, MGD
1	je	5179516	0.551	313688	0.000	172627	0.217	6481	0	13199	0.017	397673	0.554	815121	0.0000
2	je	5180067	0.641	313688	0.000	172844	0.216	6481	0	13216	0.018	398227	0.615	815121	0.5925
3	sm	5180708	0.559	313688	0.000	173060	0.218	6481	0	13234	0.02	398842	0.563	821046	0.6255
4	nc	5181267	0.553	313688	0.000	173278	0.214	6481	0	13254	0.015	399405	0.546	827301	0.6897
5	nc	5181820	0.571	313688	0.169	173492	0.218	6481	0	13269	0.017	399951	0.646	834198	0.5304
6	nc	5182391	0.502	313688	0.000	173710	0.209	6481	0	13286	0.017	400597	0.536	839502	0.6078
7	pf	5182893	0.552	313688	0.000	173919	0.219	6481	0	13303	0.017	401133	0.564	845580	0.5214
8	pf	5183445	0.632	313688	0.000	174138	0.216	6481	0	13320	0.019	401697	0.615	850794	0.9430
9	nc	5184077	0.571	313688	0.000	174354	0.218	6481	0	13339	0.008	402312	0.595	860224	0.8353
10	nc	5184648	0.566	313688	0.000	174572	0.214	6481	0	13347	0.008	402907	0.651	868577	0.6992
11	nc	5185214	0.525	313688	0.000	174786	0.215	6481	0	13355	0.014	403558	0.588	875569	0.6674
12	nc	5185739	0.546	313688	0.000	175001	0.216	6481	0	13369	0.043	404146	0.554	882243	0.4716
13	nc	5186285	0.534	313688	0.000	175217	0.206	6481	0	13412	0.012	404700	0.619	886959	0.1749
14	jw	5186819	0.557	313688	0.000	175423	0.161	6481	0	13424	0.04	405319	0.515	888708	0.3717
15	jw	5187376	0.594	313688	0.000	175584	0.158	6481	0	13464	0.034	405834	0.546	892425	0.5538
16	nc	5187970	0.605	313688	0.000	175742	0.218	6481	0	13498	0.02	406380	0.559	897963	0.3296
17	je	5188575	0.771	313688	0.000	175960	0.221	6481	0	13518	0.013	406939	0.579	901259	0.0000
18	nc	5189346	0.851	313688	0.000	176181	0.183	6481	0	13531	0.012	407518	0.619	901259	0.2578
19	nc	5190197	0.786	313688	0.000	176364	0.014	6481	0	13543	0.069	408137	0.516	903837	0.4956
20	nc	5190983	0.558	313688	0.000	176378	0.217	6481	0	13612	0	408653	0.605	908793	0.4147
21	je	5191541	0.622	313688	0.000	176595	0.215	6481	0	13612	0	409258	0.705	912940	0.0000
22	je	5192163	0.596	313688	0.000	176810	0.214	6481	0	13612	0	409963	0.626	912940	0.0000
23	nc	5192759	0.564	313688	0.000	177024	0.220	6481	0	13612	0	410589	0.616	912940	0.0000
24	nc	5193323	0.543	313688	0.000	177244	0.216	6481	0	13612	0	411205	0.621	912940	0.0000
25	nc	5193866	0.531	313688	0.000	177460	0.214	6481	0	13612	0.009	411826	0.603	912940	0.0000
26	je	5194397	0.799	313688	0.000	177674	0.138	6481	0	13621	0.071	412429	0.739	912940	0.0000
27	je	5195196	0.383	313688	0.000	177812	0.156	6481	0	13692	0.02	413168	0.389	912940	0.0000
28	pf	5195579	0.574	313688	0.000	177968	0.213	6481	0	13712	0.032	413557	0.585	912940	0.0000
29	pf	5196153	0.968	313688	0.000	178181	0.220	6481	0	13744	0.013	414142	0.945	912940	0.0000
30	nc	5197121	0.780	313688	0.000	178401	0.199	6481	0	13757	0.012	415087	0.792	912940	0.0000
		5197901		313688		178600		6481		13769		415879		912940	
Average			0.61		0.01		0.20		0.00		0.02		0.61		0.33
Maximum			0.968		0.169		0.221		0.000		0.071		0.945		0.943
Minimum			0.383		0.000		0.014		0.000		0.000		0.389		0.000

Willits Water Quality Control Plant - Daily Meter Readings
Month and Year Oct. 2013

V

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Discharge Irrigation Flow, MGD
1		5197901	0.731	313688	0.000	178600	0.182	6481	0	13769	0.009	415879	0.703	912940 0.0000
2	nc	5198632	0.636	313688	0.000	178782	0.147	6481	0	13778	0.021	416582	0.607	912940 0.0000
3	jw	5199268	0.625	313688	0.000	178929	0.000	6481	0	13799	0.069	417189	0.556	912940 0.0000
4	nc	5199893	0.580	313688	0.000	178929	0.163	6481	0	13868	0.025	417745	0.576	912940 0.0000
5	jw	5200473	0.611	313688	0.169	179092	0.220	6481	0	13893	0	418321	0.627	912940 0.0000
6	jw	5201084	0.664	313688	0.000	179312	0.174	6481	0	13893	0.026	418948	0.638	912940 0.0000
7	nc	5201748	0.617	313688	0.000	179486	0.158	6481	0	13919	0.04	419586	0.570	912940 0.0000
8	nc	5202365	0.626	313688	0.000	179644	0.210	6481	0	13959	0.006	420156	0.641	912940 0.0444
9	nc	5202991	0.602	313688	0.000	179854	0.114	6481	0	13965	0.053	420797	0.541	913384 0.0172
10	nc	5203593	0.581	313688	0.000	179968	0.218	6481	0	14018	0.028	421338	0.574	913556 0.0039
11	nc	5204174	0.604	313688	0.000	180186	0.220	6481	0	14046	0.018	421912	0.620	913595 0.1076
12	je	5204778	0.623	313688	0.000	180406	0.217	6481	0	14064	0	422532	0.601	914671 0.0058
13	je	5205401	0.645	313688	0.000	180623	0.211	6481	0	14064	0	423133	0.627	914729 0.0002
14	nc	5206046	0.610	313688	0.000	180834	0.217	6481	0	14064	0	423760	0.599	914731 0.0043
15	nc	5206656	0.626	313688	0.000	181051	0.218	6481	0	14064	0	424359	0.644	914774 0.0718
16	nc	5207282	0.598	313688	0.000	181269	0.179	6481	0	14064	0.012	425003	0.628	915492 0.0054
17	nc	5207880	0.608	313688	0.000	181448	0.008	6481	0	14076	0.047	425631	0.586	915546 0.4095
18	nc	5208488	0.591	313688	0.000	181456	0.154	6481	0.001	14123	0.068	426217	0.541	919641 0.3853
19	je	5209079	0.582	313688	0.000	181610	0.216	6482	0.008	14191	0	426758	0.616	923494 0.3874
20	je	5209661	0.652	313688	0.000	181826	0.202	6490	0.007	14191	0.01	427374	0.680	927368 0.1557
21	nc	5210313	0.585	313688	0.000	182028	0.148	6497	0.001	14201	0.035	428054	0.601	928925 0.0001
22	nc	5210898	0.595	313688	0.000	182176	0.158	6498	0.001	14236	0.02	428655	0.612	928926 0.0000
23	nc	5211493	0.575	313688	0.000	182334	0.214	6499	0.007	14256	0	429267	0.609	928926 0.0000
24	nc	5212068	0.581	313688	0.000	182548	0.215	6506	0.009	14256	0	429876	0.652	928926 0.0000
25	nc	5212649	0.552	313688	0.000	182763	0.220	6515	0.004	14256	0	430528	0.631	928926 0.0000
26	jw	5213201	0.582	313688	0.000	182983	0.221	6519	0.009	14256	0	431159	0.617	928926 0.0000
27	jw	5213783	0.633	313688	0.000	183204	0.213	6528	0.006	14256	0	431776	0.648	928926 0.0000
28	nc	5214416	0.583	313688	0.000	183417	0.215	6534	0.004	14256	0	432424	0.607	928926 0.0000
29	nc	5214999	0.601	313688	0.000	183632	0.183	6538	0.001	14256	0.022	433031	0.577	928926 0.0000
30	nc	5215600	0.607	313688	0.000	183815	0.176	6539	0.001	14278	0.024	433608	0.584	928926 0.0000
31	nc	5216207	0.573	313688	0.000	183991	0.196	6540	0.008	14302	0.009	434192	0.547	928926 0.0000
1	sm	5216780		313688		184187		6548		14311		434739		928926
Average			0.61		0.01		0.18		0.00		0.02		0.61	0.05
Maximum			0.731		0.169		0.221		0.009		0.069		0.703	0.410
Minimum			0.552		0.000		0.000		0.000		0.000		0.541	0.000

Willits Water Quality Control Plant - Daily Meter Readings
Month and Year

Nov-13

Day	Init.	Influent Totalizer	Influent Flow, MGD	RAS 1 Totalizer	RAS Flow, MGD	RAS 2 Totalizer	RAS Flow, MGD	WAS 1 Totalizer	WAS Flow, MGD	WAS 2 Totalizer	WAS Flow, MGD	Effluent Totalizer	Effluent Flow, MGD	Irrigation	Discharge Flow, MGD
1	sm	5216780	0.612	313688	0.000	184187	0.042	6548	0.003	14311	0.023	434739	0.571	928926	0.0000
2	je	5217392	0.615	313688	0.000	184229	0.191	6551	0.007	14334	0.01	435310	0.596	928926	0.0000
3		5218007	0.671	313688	0.000	184420	0.177	6558	0	14344	0.017	435906	0.625	928926	0.0000
4	sm	5218678	0.599	313688	0.000	184597	0.181	6558	0.002	14361	0.017	436531	0.561	928926	0.0000
5	nc	5219277	0.598	313688	0.169	184778	0.218	6560	0.008	14378	0	437092	0.470	928926	0.0000
6	nc	5219875	0.600	313688	0.000	184996	0.345	6568	0.008	14378	0	437562	0.420	928926	0.0000
7	pf	5220475	0.590	313688	0.000	185341	0.358	6576	0.004	14378	0	437982	0.419	928926	0.0000
8	nc	5221065	0.526	313688	0.000	185699	0.308	6580	0.001	14378	0.018	438401	0.476	928926	0.0000
9	pf	5221591	0.588	313688	0.000	186007	0.308	6581	0.007	14396	0.021	438877	0.557	928926	0.0000
10	pf	5222179	0.612	313688	0.000	186315	0.310	6588	0.006	14417	0.021	439434	0.575	928926	0.0000
11	pf	5222791	0.613	313688	0.000	186625	0.339	6594	0.007	14438	0.004	440009	0.571	928926	0.0000
12	nc	5223404	0.608	313688	0.000	186964	0.353	6601	0.008	14442	0	440580	0.669	928926	0.0000
13	nc	5224012	0.567	313688	0.000	187317	0.258	6609	0	14442	0.01	441249	0.551	928926	0.0000
14	nc	5224579	0.590	313688	0.000	187575	0.268	6609	0	14452	0.01	441800	0.567	928926	0.0167
15	nc	5225169	0.537	313688	0.000	187843	0.267	6609	0.002	14462	0.014	442367	0.552	929093	0.0000
16	jw	5225706	0.574	313688	0.000	188110	0.256	6611	0	14476	0.015	442919	0.579	929093	0.0000
17	jw	5226280	0.622	313688	0.000	188366	0.267	6611	0	14491	0.011	443498	0.620	929093	0.0000
18	nc	5226902	0.644	313688	0.000	188633	0.323	6611	0.002	14502	0.007	444118	0.698	929093	0.0000
19	nc	5227546	1.178	313688	0.000	188956	0.282	6613	0	14509	0.017	444816	1.189	929093	0.0000
20	jw	5228724	0.774	313688	0.000	189238	0.348	6613	0	14526	0.01	446005	0.773	929093	0.0000
21	nc	5229498	0.687	313688	0.000	189586	0.360	6613	0.002	14536	0.012	446778	0.674	929093	0.0000
22	nc	5230185	0.600	313688	0.000	189946	0.359	6615	0.007	14548	0.007	447452	0.605	929093	0.0000
23	sm	5230785	0.642	313688	0.000	190305	0.364	6622	0.006	14555	0.006	448057	0.626	929093	0.0000
24	sm	5231427	0.632	313688	0.000	190669	0.355	6628	0.009	14561	0	448683	0.673	929093	0.0000
25	sm	5232059	0.602	313688	0.000	191024	0.260	6637	0	14561	0.011	449356	0.630	929093	0.0000
26	sm	5232661	0.604	313688	0.000	191284	0.359	6637	0.005	14572	0.035	449986	0.614	929093	0.0000
27	sm	5233265	0.645	313688	0.000	191643	0.346	6642	0.004	14607	0.002	450600	0.671	929093	0.0000
28	pf	5233910	0.573	313688	0.000	191989	0.257	6646	0.003	14609	0.01	451271	0.568	929093	0.0000
29	pf	5234483	0.599	313688	0.000	192246	0.175	6649	0	14619	0.02	451839	0.574	929093	0.0000
30	pf	5235082	-5235.082	313688	-313.688	192421	-192.421	6649	-6.649	14639	-14.639	452413	-452.413	929093	-92.9093
31			0.000		0.000		0.000		0		0		0.000		0.0000
1															
Average			-173.89		-10.45		-6.14		-0.22		-0.48		-14.49		-3.10
Maximum			1.178		0.169		0.364		0.009		0.035		1.189		0.017
Minimum			-5235.082		-313.688		-192.421		-6.649		-14.639		-452.413		-92.909